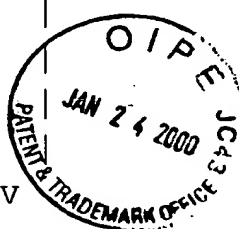


COFC

DOCKET NO.: 3442

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
IN THE MATTER OF THE PATENT
OF: Tomohiro KAWASE et al.
PATENT NO.: 6,007,622
ISSUE DATE: December 28, 1999
FOR: METHOD OF PREPARING GROUP III-V
COMPOUND SEMICONDUCTOR CRYSTAL



#17
[Signature]

Assistant Commissioner for Patents

Washington, D. C. 20231

January 21, 2000

REQUEST FOR THE ISSUANCE OF A CERTIFICATE OF CORRECTION UNDER 35 USC 254 AND CERTIFICATE OF MAILING

Dear Sir:

A review of Letters Patent 6,007,622, issued on December 28, 1999 reveals that corrections should be made as shown on the enclosed Form PTOL-1050. Please see the Response dated April 13, 1998, **Pages 1 to 10, 13 and 15;** as well as our Response dated August 30, 1999, **Page 2** for an explanation of the requested changes.

RECEIVED
FEB -1 2000
CERTIFICATE OF CORRECTION

Issuance of a Certificate of Correction as soon as possible will be much appreciated.

Respectfully submitted,

Tomohiro KAWASE et al.
Applicant

APPROVED

SEP 20 2001
FOR THE DIRECTOR OF USPTO
Form PTO-1050
(10 pgs. 2x)

WGF:ar/3442
Enclosures: 2

By W. G. Fasse
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CERTIFICATE OF MAILING

I certify that this Correction Request with enclosures, is being mailed on: January 21, 2000, as first-class mail, with sufficient postage prepaid, in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, Washington, D. C. 20231.

Cynthia Falk Jan. 21, 00
Cynthia Falk - January 21, 2000

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,007,622**DATED : Dec. 28, 1999****INVENTOR(S) : Kawase et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, under [57] ABSTRACT:

line 8, after "crucible" insert --within an airtight vessel formed of a--;

Col. 1, line 7, after "crystal" replace ". Particularly," by --, and particularly a carbon-doped--;

line 8, cancel the entire line;

line 9, after "crystal" replace "in which" by --.--;

line 10, cancel the entire line;

line 12, after "prior" replace "arts as set forth in" by --art--;

line 13, replace the line to read: --methods for preparing a carbon-doped group--;

line 14, after "crystal" replace "in which carbon is" by --, as set forth in the following described publications.--;

line 15, cancel the entire line;

line 16, before "Japanese" delete "In";

line 17, after "hereinafter)" replace "," by --discloses--;

line 19, after "method)", insert --.--;

line 20, please cancel the entire line;

delete the paragraph spacing between lines 20 and 21;

line 21, delete the indentation;

delete the paragraph spacing between lines 22 and 23;

line 23, (actual line count) delete the indentation.

line 34, (actual line count), after "in" insert --the formation of--, after "like" replace "to be" by --which is--;

delete the paragraph spacing between lines 35 and 36 (actual line count);

line 36, delete the indentation;

- page 1 of 10 -

ADDRESS OF SENDER:

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PATENT NO. 6,007,622

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,007,622**DATED : December 28, 1999****INVENTOR(S) : Kawase et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- Col. 1, line 40, before "Journal" replace "In" by --The--;
line 42, after "hereinafter)" replace "," by
--discloses--;
line 44, after "method)" delete "is disclosed";
delete the paragraph spacing between lines 44 and 45
line 45, **delete the indentation;**
delete the paragraph spacing between lines 46 and 47;
line 47, **delete the indentation,** after "62" replace
"having" by --which has--; after "doped"
insert --therein--,
line 48, after "advance," insert --and which was--,
after "method" insert --,--;
line 55, (actual line counter), after "containing"
insert --200ppm of--; after "water" delete "of
200ppm";
delete the paragraph between cols. 1 and 2;
Col. 2, line 1, delete the indentation, before "U.S." delete
"In";
line 2, after "hereinafter)" replace "," by --dis-
closes--; after "preparing" insert --a--;
line 3, after "method" insert --.---;
line 4, cancel the entire line;
delete the paragraph spacing between lines 4 and 5;
line 5, **delete the indentation;** after "preparing"
insert --a--;
delete the paragraph spacing between lines 14 and 15;
line 21, (actual line count), **delete the paragraph
spacing between lines 21 and 22;**

- page 2 of 10 -

ADDRESS OF SENDER:

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PATENT NO. 6,007,622

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 2, line 22, delete the indentation;
 line 28, after "preparing" insert --the same.--;
 line 29, before "This", delete "thereof.--";
 line 30, after "contained", replace "having" by --in--;
 line 34, after "concentration" delete "of";
 line 36, after "art" insert --methods--;
 line 42, after "since" insert --a--;
 line 45, after "oxygen," replace "that" by --which--;
 line 47, after "gas." replace "There was" by --As a result, there is--.
 line 63, after "preparing" replace "in" by --, with--;
 line 64, after "ibility" insert --,-- after "a" insert --carbon-doped--; after crystal, replace "of" by --having--;
 line 65, after "characteristics" insert --and--;
 line 66, after "removed" insert --therefrom--, before "in" delete "and";
 Col. 3, line 1, before "aspect" replace "According to an" by --One--, after "invention" replace "," by --provides--;
 line 2, after "crystal", insert --.--;
 line 3, before "This", delete "is provided"; ← .
 line 4, after "doped" insert --therein--;
 line 9, after "compound" insert --raw--;
 line 11, after "compound" insert --raw--.
 line 20, after "the" insert --initial--;
 line 21, after "doped" insert --into the material--;
 line 23, after "obtained" replace "in" by --with--;
 line 30, after "Preferably," insert --the--;
 delete the paragraph spacing between lines 30 and 31;

- page 3 of 10 -

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PATENT NO. 6,007,622

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION****PATENT NO. : 6,007,622****DATED : December 28, 1999****INVENTOR(S) : Kawase et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 3, line 31, **delete the indentation;**
line 34, **delete the paragraph spacing between lines 35 and 36;**
line 36, before "oxide", replace "Boron" by --The boron--
after "contains" delete "water of";
after "ppm" replace "." by --of water.--.
line 38, after "filled" insert --into the crucible--;
after "carbon" insert --to be--;
line 39, **delete the paragraph spacing between lines 39 and 40;**
line 42, after "Furthermore," insert --an additional
amount of carbon must be supplied to make up
for the--, after "of" (**first occurrence**)
delete "the";
line 43, after "carbon" (**first occurrence**) replace "at
the" by --in--, after "compound", replace
"must" by --.--;
line 44, before "Thus," delete "must be supplied.--";
line 47, **delete the paragraph spacing between lines 46 and 47;**
line 52, **delete the paragraph spacing between lines 52 and 53;**
line 53, **delete the indentation;** after "process,"
replace "the" by --any--, after "in" insert
--the--;
line 54, **delete the paragraph spacing between lines 54 and 55;**
line 55, **delete the indentation,** after "applying"
replace "a" by --the--, after "treatment"
replace "on" by --to the--.
line 63, before "change" insert --further--;

- page 4 of 10 -

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PATENT NO. 6,007,622

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 4, delete the paragraph spacing between lines 3 and 4;
 line 4, delete the indentation;
 line 12, after "those" insert --samples--.
 line 25, after "little" insert --further--;
 delete the paragraph spacing between lines 31 and 32;
 line 32, delete the indentation;
 line 38, (actual line count), after "like" insert --,--, before "powder" delete "used", after "powder" insert --being used--;
 delete the paragraph spacing between lines 41 and 42 (actual line count);
 line 43, delete the indentation.
 line 46, (actual line count), after "oxide" insert --which is--;
 line 47, (actual line count), after "state" replace "where" by --in which--;
 delete the paragraph spacing between lines 49 and 50 (actual line count);
 line 8,
 line 50, delete the indentation;
 delete the paragraph spacing between lines 58 and 59 (actual line count);
 line 59, delete the indentation;
 delete the paragraph spacing between lines 61 and 62, (actual line count);
 line 62, delete the indentation; after "in" insert --the--;
 line 63, (actual line count), after "oxide" replace "that" by --which--, after "state" replace "where" by --in which--;
 line 65, (actual line count), after "above" insert --the--, after "oxide", replace "to" by --and thereby--;

- page 5 of 10 -

ADDRESS OF SENDER:

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PATENT NO. 6,007,622

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,007,622**DATED : December 28, 1999****INVENTOR(S) : Kawase et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 5, line 1, before "solid" insert --the--;
delete the paragraph spacing between lines 2 and 3;
line 3, delete the indentation;
delete the paragraph spacing between lines 12 and 13;
line 13, delete the indentation;
delete the paragraph spacing between lines 17 and 18;
line 18, delete the indentation;
delete the paragraph spacing between lines 23 and 24;
line 23, delete the indentation; after "constituent"
replace "element" by --elements--;
line 25, after "crucible" replace "to induce" by
--and induces--.
line 52, after "semiconductor", delete "crys-" ;
line 53, before "single", delete "tal";
line 56, after "semiconductor", delete "crys-" ;
line 57, before "single", delete "tal";
line 59, after "semiconductor", delete "crys-" ;
line 60, before "single", delete "tal";
line 61, before "DESCRIPTION" insert --DETAILED--;
delete the paragraph spacing between Col. 5, line 67
and Col. 6, line 1;
Col. 6, line 1, delete the indentation;
line 2, after "powder 13" insert --which has been--;
line 3, after "4" insert --forming a boron oxide
layer 4b and a boron oxide film 4a as
described below--;
line 4, after "crystal" insert --7--;
line 6, after "crucible 1," replace "arrangement was
provided so" by --the materials were so
arranged--.

- page 6 of 10 -

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PATENT NO. 6,007,622

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 6, line 31, after "heater 8" replace "using" by --in--;
delete the paragraph spacing between lines 31 and 32;
 line 32, **delete the indentation;**
delete the paragraph spacing between lines 34 and 35;
 line 35, **delete the indentation.**
 line 38, after "melt 2" delete ". The";
 line 39, before "boron", replace "thickness of the" by
 --as a--, after "4b" delete "covering the
 upper";
 line 40, before "approximately" replace
 "surface of GaAs melt 2 was" by --having a
 thickness of--;
 line 41, after "4b" replace "." by --, as shown also
 in Fig. 1.--;
 line 42, after "was" replace "kept" by
 --maintained--;
delete the paragraph spacing between lines 43 and 44
 (actual line count);
 line 44, (actual line count), **delete the indentation;**
 line 47, (actual line count), after "crystal" replace
 "is" by --are--;
 following Table 2, line 2, after "crystal" replace
 "corresponds" by --correspond--.
delete the paragraph spacing between lines 65 and 66;
 line 66, **delete the indentation;**
 Col. 7, **delete the paragraph spacing between lines 14 and 15;**
 line 15, **delete the indentation;**
 line 17, after "oxide 4" insert --forming a boron
 oxide layer 4b and a boron oxide film 4a as
 described below--;

- page 7 of 10 -

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PATENT NO. 6,007,622

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION****PATENT NO. : 6,007,622****DATED : December 28, 1999****INVENTOR(S) : Kawase et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 7, line 19, after "crucible 1," delete "arrangement"
line 20, before "so", replace "was provided" by
--the materials were arranged--;
delete the paragraph spacing between lines 24 and 25;
line 25, delete the indentation;
delete the paragraph spacing between lines 27 and 28;
line 28, delete the indentation;
line 44, after "heater 8" replace "using" by --in--;
delete the paragraph spacing between lines 45 and 46;
line 46, delete the indentation;
delete the paragraph spacing between lines 49 and 50;
line 50, delete the indentation;
line 53, after "melt" replace ". This" by
--2 as a--;
line 54, replace the line to read: --oxide
layer 4b--;
line 55, before "approximately" replace "was" by
--having a thickness of--;
line 60, after "was" replace "kept" by
--maintained--;
delete the paragraph spacing between lines 61 and 62;
line 62, delete the indentation;
Col. 8, delete the paragraph spacing between lines 15 and 16;
line 16, delete the indentation, after "experiment"
replace "are" by --were--;
delete the paragraph spacing between lines 18 and 19;
line 19, delete the indentation;
delete the paragraph spacing between lines 35 and 36;
line 36, delete the indentation, after "conditions"
replace "are" by --were--;
delete the paragraph spacing between lines 37 and 38;
line 38, delete the indentation.

- page 8 of 10 -

ADDRESS OF SENDER:

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PATENT NO. 6,007,622

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION****PATENT NO. : 6,007,622****DATED : December 28, 1999****INVENTOR(S) : Kawase et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- Col. 8, delete the paragraph spacing between lines 60 and 61;
line 61, delete the indentation;
line 64, after "oxide 4" insert --that will form a boron oxide layer 4b and a boron oxide film 4a as described below--;
line 66, before "so" replace "arrangement was provided" by --the materials were arranged--;
- Col. 9, delete the paragraph spacing between lines 6 and 7;
line 7, delete the indentation, after "of" replace "example 4" by --example 5--.
line 22, after "heater 8" replace "using" by --in a--;
delete the paragraph spacing between lines 23 and 24;
line 24, delete the indentation;
delete the paragraph spacing between lines 26 and 27;
line 27, delete the indentation;
line 30, after "melt 2" replace ". The thickness of the" by --as a--;
line 31, replace the line to read: --oxide layer 4b--;
line 32, before "approximately" replace "was" by --having a thickness of--;
line 36, after "was" replace "kept" by --maintained--;
delete the paragraph spacing between lines 37 and 38;
line 38, delete the indentation.
- Col.10, line 2, after "upon" replace "difference" by --differences--;
line 47, before "material,", replace "Law" by --raw--;

- page 9 of 10 -

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PATENT NO. 6,007,622

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 11, line 42, after "powder", delete "solid";
Col. 12, line 3, after "fiber", delete "solid".

- page 10 of 10 -

**ADDRESS OF SENDER: FASSE PATENT ATTORNEYS, P.A.
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PATENT NO.: 6,007,622